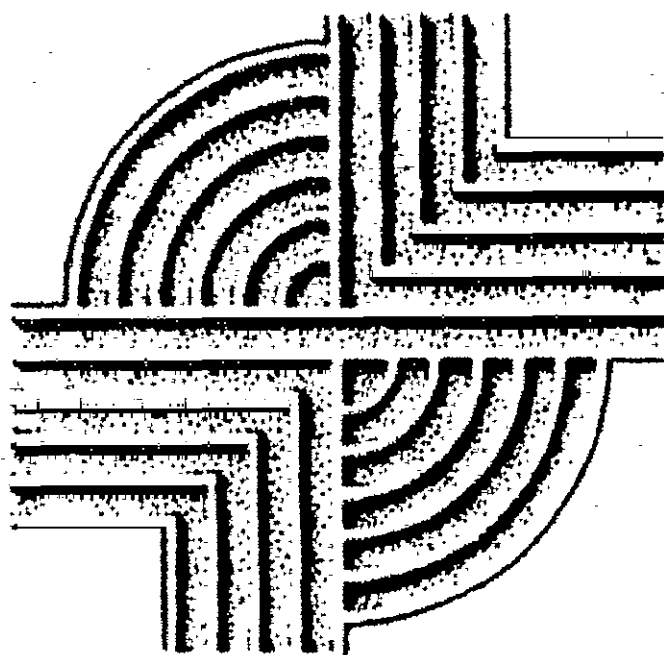


AN INTENSIVE ARCHAEOLOGICAL
SURVEY OF THE WOODCREEK
SUBDIVISION, HORRY COUNTY,
SOUTH CAROLINA



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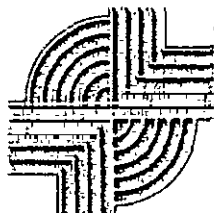
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AN INTENSIVE ARCHAEOLOGICAL SURVEY OF THE WOODCREEK SUBDIVISION, HORRY COUNTY, SOUTH

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ABSTRACT

This study reports on an intensive archaeological survey of the approximately 100 acre tract known as the Woodcreek subdivision in Conway, Horry County, South Carolina. The tract is situated off Dunn Shortcut Road (Highway 165), approximately 0.5 mile from SC 501.

The tract is divided into two sections; the western section is a heavily forested pine wetland and has not been developed at the time of this study; the eastern section consists of soybean field and areas of extensive disturbance through bulldozing and grading operations. The damage found in this section of the tract affects the possibility of identifying archaeological remains.

The intensive survey consisted of a pedestrian survey of the entire tract, other than wetlands, and the excavation of shovel tests at 100 foot intervals in areas of reduced visibility. Most of the tract (excluding the wetlands), however, exhibited good ground visibility — at least 75%.

No archaeological sites have been previously identified in the immediate project area. Likewise there are no known National Register sites or architectural sites in the immediate project area.

Two archaeological sites were identified during these investigations: a historic artifact scatter (38HR455) and a prehistoric surface and subsurface scatter (38HR456). Because of the extensive damage to the area surrounding the site 38HR456, it is unlikely that the site demonstrates integrity. All of the artifacts recovered from 38HR455 came from the surface and subsurface testing failed to recover any artifacts or evidence of intact features. Both sites are recommended not eligible for inclusion on the National Register and no further management activities are recommended, pending concurrence by the lead federal agency and the State Historic Preservation Office.

There remains the possibility that previously unrecovered archaeological resources will be identified during construction. Crews should be made aware that if pottery, arrowheads, concentrations of bricks, or the presence of bones are found in the project area, ground disturbing activities should be suspended until the finds can be assessed by either the project archaeologist or the State Historic Preservation Office.

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We also appreciate the efforts of the State Historic Preservation Office, especially Dr. Tracy Power, and the S.C. Institute of Archaeology and Anthropology, especially Mr. Keith Derting. Both provided us with information on previous surveys and identified resources for the area. Ms. Sharon Pekrul of

the S.C. Institute of Archaeology and Anthropology arranged the details of curation for the project.

Finally, here at Chicora, we want to thank Mr. Todd Hejlik, Ms. Kerri Barile, and Ms. Suzanne Coyle for making the numerous trips necessary to gather the information that one of these seemingly simple reports requires. We also want to thank Ms. Debi Hacker for her assistance with the graphics required for this report.

INTRODUCTION

Project Background

This investigation of the 100 acres for the Woodcreek Subdivision in Conway, Horry County, South Carolina was conducted by Chicora Foundation, Inc. for Mr. Robert Lewis of Lewis and Reeves, P.C. of Columbia, South Carolina. The project area is situated in the central portion of Horry County on the Lower Coastal Plain of South Carolina (Figure 1).

The tract is located near SC Highway 521 off Dunn Shortcut Road (SC 156) (Figure 2). The survey tract is divided into two broad sections: the eastern portion of the tract, which is a forested pine wetland that had not been developed; and the western portion of the tract, which consists of soybean fields and areas currently being developed.

The eastern portion of the tract is a heavily wooded wetland with planted pines, standing water, and dense leaf litter resulting in very little ground visibility (Figure 3). In the western portion of the tract, two areas of soybean fields are still intact, while the majority of this area has been subjected to clear cutting, bulldozing, leveling, and the construction of canals (Figure 4).

Construction of the Woodcreek Subdivision has already begun in the eastern portion of this survey tract. The South Carolina State Historic Preservation Office (SHPO) requested that a reconnaissance archaeological survey be undertaken to determine if any cultural resources would be impacted by the construction of the subdivision.

We were requested by Mr. Robert Lewis to submit a technical and cost proposal for an intensive survey of the tract on March 17, 1999. This proposal, submitted on March 18, was approved the same day.

These investigations incorporated a review of

the site files at the South Carolina Institute of Archaeology and Anthropology by Mr. Todd Hejlik. No previously identified sites were found in the immediate project area. In addition, Dr. Tracy Power at the South Carolina Department of Archives and History was asked on March 22, 1999 to check the master topographic maps at his office to locate any NRHP buildings, districts, structures, sites, or objects in the study area. In addition, his office was asked about the results of any structures surveys which might have been completed in the study area. Dr. Power reported that no such cultural resources have been reported from the immediate project area.

Archival and historic research, given the scope of the project, was limited to the examination of secondary materials in the Chicora Foundation research files.

The survey was conducted on March 23, 1999 by Ms. Rachel Campo and Mr. Todd Hejlik. A total of 19.0 person hours were required for this investigation.

Goals and Methods

The primary goal of this study was to identify the archaeological resources of the survey corridor. In addition, we sought to assess the ability of those resources to contribute significant archaeological, historical, or anthropological data in order to determine the resources eligibility for inclusion on the National Register of Historic Places. Chicora Foundation, however, only provides an opinion or recommendation of National Register eligibility, with the final determination made by the lead federal compliance agency in consultation with the State Historic Preservation Office at the South Carolina Department of Archives and History.

To identify sites within the corridor, a strategy

This map illustrates the Charleston, South Carolina region, focusing on the project area for the Charleston Harbor Bridge. The map shows the following details:

- Geographic Features:** The map includes the Charleston Harbor, the Waccamaw River, and the Pee Dee River. Key areas like Iona, Horry, and Georgetown are labeled.
- Project Area:** A shaded area in the center of the map, near the intersection of major roads, is designated as the "PROJECT AREA".
- Infrastructure:** Major roads (e.g., I-95, I-26, I-17) and waterways (e.g., Charleston Harbor, Waccamaw River) are clearly marked.
- Scale and Orientation:** A scale bar at the bottom indicates distances from 0 to 40 miles. A north arrow is located in the bottom right corner.

2

INTRODUCTION

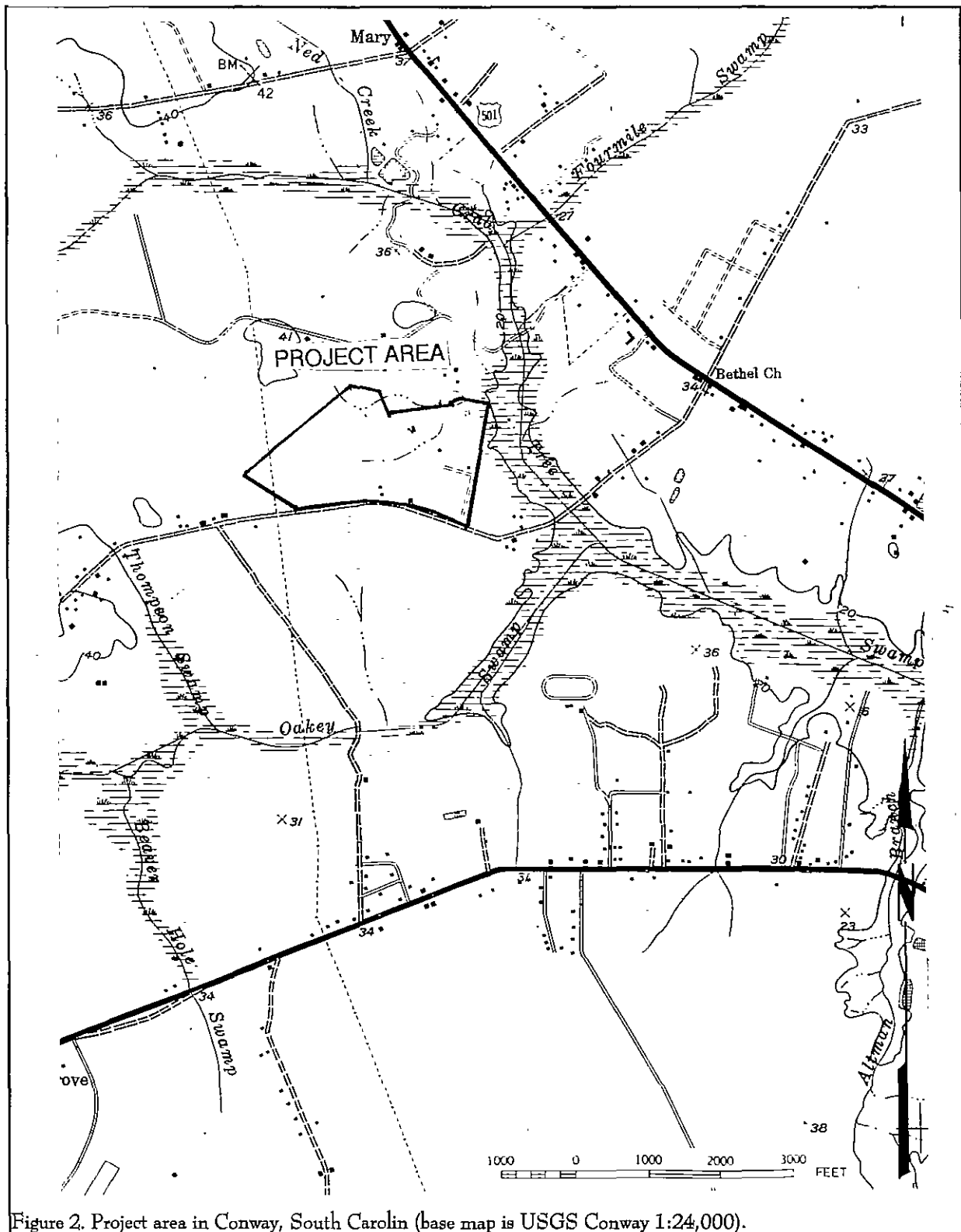


Figure 2. Project area in Conway, South Carolin (base map is USGS Conway 1:24,000).



Figure 3. View of western portion of the survey tract, showing wetlands. These areas were not surveyed.



Figure 4. View of the eastern portion of the survey tract, showing soybean fields and current construction.

INTRODUCTION

of pedestrian survey coupled with shovel testing was undertaken. Areas of standing water, in the planted pine stand, were not surveyed. The few areas where there was no standing water were subjected to shovel testing at 100 foot intervals. In these areas, the testing revealed that the water table was encountered within the upper 0.5 to 0.8 foot and the soils were heavily reduced.

Elsewhere on the tract the surface visibility was about 75%, allowing excellent identification of materials in the plowed fields. As a result, we did feel that shovel testing was necessary — although judgmental tests were excavated to determine soil profiles and periodically check for buried soils or other anomalies.

Where archaeological remains were encountered shovel testing was conducted at 25 to 50 foot intervals in a cruciform pattern, to determine if buried materials or features might be present, as well as in an effort to increase the artifacts recovered.

Shovel tests were about 1-foot square and were excavated to subsoil, typically 1.0 to 1.5 feet in depth. All fill was screened through ¼-inch mesh with the tests backfilled immediately afterwards. All materials recovered from shovel testing were retained, except for brick and mortar which, if found, would be noted and discarded in the field. Shovel tests were subsequently numbered and recorded on the project maps.

Notes were retained on representative shovel tests and photographs were taken of individual sites if warranted in the opinion of the field director. At each site the information necessary for the completion of a South Carolina Institute of Archaeology and Anthropology site form was collected.

Curation

Archaeological materials collected during this study and the associated field records are curated at the South Carolina Institute of Archaeology and Anthropology. Field records are prepared on alkaline buffered paper and two copies have been provided. The photographic material is all color prints, which are not archivally stable. These have been retained in the Chicora Foundation files.

ARCHAEOLOGICAL SURVEY OF WOODCREEK SUBDIVISION

NATURAL ENVIRONMENT

Physiographic Province

The project area is situated in the central portion of Horry County, near Crab Tree Swamp. The area is relatively flat, with a low ridge in the northeastern portion of the tract that slopes down toward a wetland.

In general, the topography slopes to the north, toward the major drainage route of the Intracoastal Waterway, which runs parallel to the coastline and flows westwardly from Little River to the Waccamaw River. The Waccamaw essentially bisects the county into east and west halves and drains numerous swamps between the river and the Atlantic Ocean. The closest drainages to the project area are Crabtree Swamp and Ned Creek, which flow north into the Intracoastal Waterway.

Horry County is bounded to the north by Brunswick and Columbus counties, North Carolina, to the east by the Atlantic Ocean, to the south by Georgetown County, and to the west by Dillon and Marion counties. It lies within the Lower Coastal Plain which is made up of fluvial deposits that contain varying amounts of sand, silt, and clay (Dudley 1986). This is also the area known as the Atlantic Coast Flatwoods which extends from the sea shore inland about 30 to 70 miles. The area is characterized by broad flats and depressions. While there are areas of well drained soils, much of the flatwoods consist of poorly drained soils with clay subsoils, especially near the coast (Ellerbe 1974:18).

Elevations may range from sea level to about 100 feet above mean sea level in the Lower Coastal Plain. In the project area there are no areas where the land is higher than 40 feet above mean sea level, and much of the area may actually be considerably lower. A noticeable characteristic of this physiographic area is how gradually the flat lands seem to grade into either

freshwater marshes, savannahs, or swamps.

Geology and Soils

The geology of the Lower Coastal Plain has been well described by Cooke (1936) who notes that from the Cape Fear River in North Carolina to Winyah Bay in South Carolina, the coast forms a "great arc scooped out by waves" (Cooke 1936:4). This area has been described by Brown (1975) as being an arcuate strand. In this area salt marshes are poorly developed or absent and few tidal inlets breach the coast (Smith 1933:20-21). The situation is the result of an erosional history about 100,000 years ago. In general, however, the geology of the Lower Coastal Plain is less complex than that of other sections of the state.

As previously mentioned, the area is dominated by fluvial deposits of unconsolidated sands and clays. Rocks are almost totally absent from the area, although Mills (1972 [1826]: 584) does note that some compact shell limestone was found on the Waccamaw between Gaul's Ferry and Bear Bluff.

Soils were primarily formed during the Pleistocene epoch and several terraces were deposited (Dudley 1986:85). The project vicinity is characterized by the Eulonia - Bladen - Wahee Association. In general, these soils range from moderately well drained to very poorly drained. They typically have a loamy or sandy surface layer coupled with a loamy or clayey subsoil.

In the project area there are four soil series. Bladen fine sandy loam is poorly drained and is found on low fluvial or marine terraces. The surface soils are very dark gray (10YR3/1) fine sandy loams overlying gray (10YR5/1) clay. These soils exhibit a seasonal water table of 1.0 foot above to 1.0 foot below the surface.

ARCHAEOLOGICAL SURVEY OF WOODCREEK SUBDIVISION

The Eulonia loamy fine sands are moderately well drained soils found on broad, smooth ridges and side slopes. The surface soils are a grayish brown (10YR5/2) loamy fine sand and a light yellowish brown (10YR6/4) fine sandy loam overlying a B horizon of yellowish brown (10YR5/8) sandy loam. The seasonal water table occurs 1.5 to 3.5 feet below the ground surface.

The Wahee Series is a somewhat poorly drained soil found on broad flat areas and shallow depressions. The seasonal water table occurs from 0.5 to 1.5 feet below the surface. The A horizon is a very dark gray (10YR4/1) fine sandy loam and a pale brown (10YR6/3) loam overlying a brown (10YR5/3) clay loam.

The Yauhannah Series is a moderately well drained fine sandy loam, occurring on broad, smoother interstream divides. The seasonal water table ranges from 1.5 to 2.5 feet below the surface. The A horizon consists of a brown (10YR4/3) fine sandy loam overlying a yellowish brown (10YR5/6) sandy clay loam.

Many of these soils — low, wet, seasonally flooded — are clearly enticing to either prehistoric or historic settlement. As a result, the project area was anticipated to have a relatively low potential for archaeological and historic sites.

In 1826 Robert Mills commented that soil was rich and productive adjacent to Horry's rivers. Even the uplands were well suited for cotton with their light sandy soil underlaid by clay. But he commented that a great deal of swamp land was found in the district, "fit only for cattle ranges" (Mills 1972 [1826]: 585). Edmund Ruffin, who managed to visit much of South Carolina's coast in the mid-1840s, never sought to go to Horry, commenting that:

I would have gone to Horry, which is called the "dark cover" of the state, but for having no expectation of finding anyone acquainted with or feeling interested in the objects of explorations (Mathew 1992:215).

Climate

Elevation, latitude, and distance from the coast work close together to affect the climate of South Carolina, although Horry is clearly dominated by its maritime location. Much of the weather is controlled by the proximity of the Gulf Stream, about 50 miles offshore. In addition, the more westerly mountains block or moderate many of the cold air masses that flow across the state from west to east. Even the very cold air masses which cross the mountains are warmed by compression before the descent on the Coast.

Consequently, the climate of Horry County is temperate. The winters are relatively mild with a mean temperature of 48°F and the summers are very warm and humid, with a mean temperature of 79°F and average humidity of 60%. Rainfall in the amount of about 51 inches is good for a broad range of crops. About 31 inches (or 60% of the total) occurs during the growing season, with until relatively recently periods of drought not being particularly common. Of course, there have been state-wide droughts, such as the one in 1845, but more often the threat to Horry crops was flooding. Major floods have occurred in 1855, 1924, 1928, 1959, 1961, and 1973, with the September 1928 flood the largest known, reaching a stage of 12.75 feet above mean sea level (U.S. Army Corps of Engineers 1973:9).

The average growing season is about 234 days, although early freezes in the fall and late frosts in the spring can reduce this period by as much as 30 or more days (Dudley 1986:97). Consequently, most cotton planting, for example, did not take place until early May, avoiding the possibility that a late frost would damage the young seedlings.

Floristics

Vegetation in Horry County is characterized in relation to the previously broad topographic patterns of poorly drained floodplains and lowlands, and the well drained uplands.

The vegetation in Horry County has been classified by Küchler (1964) as part of the Oak-Hickory-Pine forest, based on potential natural

NATURAL ENVIRONMENT

vegetation. This would consist of medium tall to tall forests of broadleaf deciduous and needleleaf evergreen trees. More specifically, however, the floodplains are covered by mixed hardwoods, including bald cypress, tupelo gum, and black gum. Less water tolerant trees, such as pines, occur on the uplands or on better drained slopes. Also found in the bottomlands, floodplains, and Carolina bays are red maple, ash, water oak, elm, and sweet gum. On the better drained uplands pine dominates, with loblolly and longleaf pines being indigenous and the slash pine introduced.

In 1826 Mills in describing the Horry District vegetation, noted:

The long leaf pine abounds, also the cypress, live oak, water oak, white oak, &c. The fruit trees are, peaches, apples, pears, plums, cherries, figs; besides strawberries, which grow wild, whortleberries, &c. The forest trees begin to bud in the latter part of March, and the fruit trees in April. The pine and cypress are mostly used for buildings (Mills 1972 [1826]: 582).

The poorly drained swamps and flatwoods of Horry County were not particularly attractive to early settlers and much of the area was not actively farmed for a number of years.

PREHISTORIC AND HISTORIC SYNOPSIS

Prehistoric Overview

Overviews for South Carolina's prehistory, while of differing lengths and complexity, are available in virtually every compliance report prepared. There are, in addition, some "classic" sources well worth attention, such as Joffre Coe's *Formative Cultures* (Coe 1964), as well as some new general overviews (such as Sassaman et al. 1990 and Goodyear and Hanson 1989). Also extremely helpful, perhaps even essential, are a handful of recent local synthetic statements, such as that offered by Sassaman and Anderson (1994) for the Middle and Late Archaic and by Anderson et al. (1992) for the Paleoindian and Early Archaic. Only a few of the many sources are included in this study, but they should be adequate to give the reader a "feel" for the area and help establish a context for the various sites identified in the study areas. For those desiring a more general synthesis, perhaps the most readable and well balanced is that offered by Judith Bense (1994), *Archaeology of the Southeastern United States: Paleoindian to World War I*. Figure 5 offers a generalized view of South Carolina's cultural periods.

Paleoindian Period

The Paleoindian Period, most commonly dated from about 12,000 to 10,000 B.P., is evidenced by basally thinned, side-notch projectile points; fluted, lanceolate projectile points, side scrapers, end scrapers; and drills (Coe 1964; Michie 1977; Williams 1965). Oliver (1981, 1985) has proposed to extend the Paleoindian dating in the North Carolina Piedmont to perhaps as early as 14,000 B.P., incorporating the Hardaway Side-Notched and Palmer Corner-Notched types, usually accepted as Early Archaic, as representatives of the terminal phase. This view, verbally suggested by Coe for a number of years, has

considerable technological appeal.¹ Oliver suggests a continuity from the Hardaway Blade through the Hardaway-Dalton to the Hardaway Side-Notched, eventually to the Palmer Side-Notched (Oliver 1985:199-200). While convincingly argued, this approach is not universally accepted.

The Paleoindian occupation, while widespread, does not appear to have been intensive. Artifacts are most frequently found along major river drainages, which Michie interprets to support the concept of an economy "oriented toward the exploitation of now extinct mega-fauna" (Michie 1977:124). Survey data for Paleoindian tools, most notably fluted points, is somewhat dated, but has been summarized by Charles and Michie (1992). They reveal a widespread distribution across the state (see also Anderson 1992b:Figure 5.1) with at least several concentrations relating to intensity of collector activity. What is clear is that points are found fairly far removed from the origin of the raw material. Charles and Michie suggest that this may "imply a geographically extensive settlement system" (Charles and Michie 1992:247).

Although data are sparse, one of the more attractive theories that explains the widespread distribution of Paleoindian sites is the model tracking the replacement of a high technology forager (or HTF) adaptation by a "progressively more generalized band/microband foraging adaption" accompanied by increasingly distinct regional traditions (perhaps

¹ While never discussed by Coe at length, he did observe that many of the Hardaway points, especially from the lowest contexts, had facial fluting or thinning which, "in cases where the side-notches or basal portions were missing, . . . could be mistaken for fluted points of the Paleo-Indian period" (Coe 1964:64). While not an especially strong statement, it does reveal the formation of the concept. Further insight is offered by Ward's (1983:63) all too brief comments on the more recent investigations at the Hardaway site (see also Daniel 1992).

ARCHAEOLOGICAL SURVEY OF WOODCREEK SUBDIVISION

Dates	Period	Sub-Period	Regional Phases		
			COASTAL	MIDDLE SAVANNAH VALLEY	CENTRAL CAROLINA PIEDMONT
1715	HIST.	EARLY	Altamaha		Caraway
1650	MISS.	LATE	Irene / Pee Dee	Rembert Hollywood	Dan River
1100		EARLY	Savannah	Lawton	
		LATE	St. Catherines / Swift Creek	Savannah	Pee Dee
800	WOODLAND				Uwharrie
A.D.			Wilmington	Sand Tempered Wilmington?	
B.C.		MIDDLE	Deptford	Deptford	Yadkin
300					
		EARLY	Refuge		Badin
1000	ARCHAIC		Thorn's Creek Stallings		
2000		LATE	Savannah River Halifax		
3000					
		MIDDLE	Guilford Morrow Mountain Stanly		
5000					
		EARLY	Kirk Palmer Hardaway		
8000					
10,000	PALEOINDIAN		Hardaway - Dalton		
12,000			Cumberland	Clovis	Simpson

Figure 5. A generalized cultural sequence for South Carolina (partially adapted from Coe 1964:Figure 116).

reflecting movement either along or perhaps even between river drainages) (Anderson 1992b:46).

Distinctive projectile points include lanceolates such as Clovis, Dalton, perhaps the Hardaway, and Big Sandy (Coe 1964; Phelps 1983; Oliver 1985). A temporal sequence of Paleoindian projectile points was proposed by Williams (1965:24-51), but according to Phelps (1983:18) there is little stratigraphic or chronometric evidence for it. While this is certainly true, a number of authors, such as Anderson (1992a) and Oliver (1985) have assembled impressive data sets. We are inclined to believe that while often not conclusively proven by stratigraphic excavations (and such proof may be an unreasonable expectation), there is a large body of circumstantial evidence. The weight of this evidence tends to provide considerable support.

Unfortunately, relatively little is known about Paleoindian subsistence strategies, settlement systems, or social organization (see, however, Anderson 1992b for an excellent overview and synthesis of what is known). Generally, archaeologists agree that the Paleoindian groups were at a band level of society, were nomadic, and were both hunters and foragers. While population density, based on isolated finds, is thought to have been low, Walthall suggests that toward the end of the period, "there was an increase in population density and in territoriality and that a number of new resource areas were beginning to be exploited" (Walthall 1980:30).

Archaic Period

The Archaic Period, which dates from 10,000 to 3,000 B.P.², does not form a sharp break with the

Paleoindian Period, but is a slow transition characterized by a modern climate and an increase in the diversity of material culture. Associated with this is a reliance on a broad spectrum of small mammals, although the white tailed deer was likely the most commonly exploited animal. Archaic period assemblages, exemplified by corner-notched and broad-stemmed projectile points, are fairly common, perhaps because the swamps and drainages offered especially attractive ecotones.

Many researchers have reported data suggestive of a noticeable population increase from the Paleoindian into the Early Archaic. This has tentatively been associated with a greater emphasis on foraging. Diagnostic Early Archaic artifacts include the Kirk Corner Notched point. As previously discussed, Palmer points may be included with either the Paleoindian or Archaic period, depending on theoretical perspective. As the climate became hotter and drier than the previous Paleoindian period, resulting in vegetational changes, it also affected settlement patterning as evidenced by a long-term Kirk phase midden deposit at the Hardaway site (Coe 1964:60). This is believed to have been the result of a change in subsistence strategies.

Settlements during the Early Archaic suggest the presence of a few very large, and apparently intensively occupied, sites which can best be considered base camps. Hardaway might be one such site. In addition, there were numerous small sites which produce only a few artifacts — these are the "network of tracks" mentioned by Ward (1983:65). The base camps produce a wide range of artifact types and raw materials

² The terminal point for the Archaic is no clearer than that for the Paleoindian and many researchers suggest a terminal date of 4,000 B.P. rather than 3,000 B.P. There is also the question of whether ceramics, such as the fiber-tempered Stallings ware, will be included as Archaic, or will be included with the Woodland. Oliver, for example, argues that the inclusion of ceramics with Late Archaic attributes "complicates and confuses classification and interpretation needlessly" (Oliver 1981:20). He comments that according to the original definition of the Archaic, it "represents a preceramic horizon" and that "the presence of ceramics

provides a convenient marker for separation of the Archaic and Woodland periods (Oliver 1981:21). Others would counter that such an approach ignores cultural continuity and forces an artificial, and perhaps unrealistic, separation. Sassaman and Anderson (1994:38-44), for example, include Stallings and Thom's Creek wares in their discussion of "Late Archaic Pottery." While this issue has been of considerable importance along the Carolina and Georgia coasts, it has never affected the Piedmont, which seems to have embraced pottery far later, well into the conventional Woodland period. The importance of the issue in the Sandhills, unfortunately, is not well known.

which has suggested to many researchers long-term, perhaps seasonal or multi-seasonal, occupation. In contrast, the smaller sites are thought of as special purpose or foraging sites (see Ward 1983:67).

Middle Archaic (8,000 to 6,000 B.P.) diagnostic artifacts include Morrow Mountain, Guilford, Stanly and Halifax projectile points. Much of our best information on the Middle Archaic comes from sites investigated west of the Appalachian Mountains, such as the work by Jeff Chapman and his students in the Little Tennessee River Valley (for a general overview see Chapman 1977, 1985a, 1985b). There is good evidence that Middle Archaic lithic technologies changed dramatically. End scrapers, at times associated with Paleoindian traditions, are discontinued, raw materials tend to reflect the greater use of locally available materials, and mortars are initially introduced. Associated with these technological changes there seem to also be some significant cultural modifications. Prepared burials begin to more commonly occur and storage pits are identified. The work at Middle Archaic river valley sites, with their evidence of a diverse floral and faunal subsistence base, seems to stand in stark contrast to Caldwell's Middle Archaic "Old Quartz Industry" of Georgia and the Carolinas, where axes, choppers, and ground and polished stone tools are very rare.

Among the most common of all Middle Woodland artifacts is the Morrow Mountain Stemmed projectile point. Originally divided into two varieties by Coe (1964:37,43) based primarily on the size of the blade and the stem. Morrow Mountain I points had relatively small triangular blades with short, pointed stems. Morrow Mountain II points had longer, narrower blades with long, tapered stems. Coe suggested a temporal sequence from Morrow Mountain I to Morrow Mountain II. While this has been rejected by some archaeologists, who suggest that the differences are entirely related to the life-stage of the point, the debate is far from settled and Coe has considerable support for his scenario.

The Morrow Mountain point is also important in our discussions since it represents a departure from the Carolina Stemmed Tradition. Coe has suggested that the groups responsible for the Middle Archaic

Morrow Mountain (and the later Guilford points) were intrusive ("without any background" in Coe's words) into the North Carolina Piedmont, from the west, and were contemporaneous with the groups producing Stanly points (Coe 1964:122-123; see also Phelps 1983:23). Phelps, building on Coe, refers to the Morrow Mountain and Guilford as the "Western Intrusive horizon." Sassaman (1995) has recently proposed a scenario for the Morrow Mountain groups which would support this west-to-east time-transgressive process. Abbott and his colleagues, perhaps unaware of Sassaman's data, dismiss the concept, commenting that the sheer distribution and number of these points "makes this position wholly untenable" (Abbott et al. 1995:9).

The controversy surrounding Morrow Mountain also includes its posited date range. Coe (1964:123) did not expect the Morrow Mountain to predate 6500 B.P., yet more recent research in Tennessee reveals a date range of about 7500 to 6500 B.P. Sassaman and Anderson (1994:24) observe that the South Carolina dates have never matched the antiquity of their more western counterparts and suggest continuation to perhaps as late as 5500 B.P. In fact they suggest that even later dates are possible since it can often be difficult to separate Morrow Mountain and Guilford points.

A recently defined point is the MALA. The term is an acronym standing for Middle Archaic and Late Archaic, the strata in which these points were first encountered at the Pen Point site (38BR383) in Barnwell County, South Carolina (Sassaman 1985). These stemmed and notched lanceolate points were originally found in a context suggesting a single-episode event with variation not based on temporal variation. The original discussion was explicitly worded to avoid application of a typology, although as Sassaman and Anderson (1994:27) note, the "type" has spread into more common usage. There are possible connections with both the Halifax points of North Carolina and the Benton points of the middle Tennessee River valley, while the "heartland" for the MALA appears confined to the lower middle Coastal Plain of South Carolina.

The available information has resulted in a variety of competing settlement models. Some argue for

increased sedentism and a reduction of mobility (see Goodyear et al. 1979:111). Ward argues that the most appropriate model is one which includes relatively stable and sedentary hunters and gatherers "primarily adapted to the varied and rich resource base offered by the major alluvial valleys" (Ward 1983:69). While he recognizes the presence of "inter-riverine" sites, he discounts explanations which focus on seasonal rounds, suggesting "alternative explanations . . . [including] a wide range of adaptive responses." Most importantly, he notes that:

the seasonal transhumance model and the sedentary model are opposite ends of a continuum, and in all likelihood variations on these two themes probably existed in different regions at different times throughout the Archaic period (Ward 1983:69).

Others suggest increased mobility during the Archaic (see Cable 1982). Sassaman (1983) has suggested that the Morrow Mountain phase people had a great deal of residential mobility, based on the variety of environmental zones they are found in and the lack of site diversity. The high level of mobility, coupled with the rapid replacement of these points, may help explain the seemingly large numbers of sites with Middle Archaic assemblages. Curiously, the later Guilford phase sites are not as widely distributed, perhaps suggesting that only certain micro-environments were used (cf. Ward [1983:68-69] who would likely reject the notion that substantially different environmental zones are, in fact, represented).

Recently Abbott et al. argue for a combination of these models, noting that the almost certain increase in population levels probably resulted in a contraction of local territories. With small territories there would have been significantly greater pressure to successfully exploit the limited resources by more frequent movement of camps. They discount the idea that these territories could have been exploited from a single base camp without horticultural technology. Abbott and his colleagues conclude, "increased residential mobility under such conditions may in fact represent a common stage in the development of sedentism" (Abbott et al. 1995:9).

From excavations at a Sandhills site in Chesterfield County, South Carolina, Gunn and his colleague (Gunn and Wilson 1993) offer an alternative model for Middle Archaic settlement. He accepts that the uplands were desiccated from global warming, but rather than limiting occupation, this environmental change made the area more attractive for residential base camps. Gunn and Wilson suggest that the open, or fringe, habitat of the upland margins would have been attractive to a wide variety of plant and animal species.

The Late Archaic, usually dated from 6,000 to 3,000 or 4,000 B.P., is characterized by the appearance of large, square stemmed Savannah River projectile points (Coe 1964). These people continued to intensively exploit the uplands much like earlier Archaic groups with, the bulk of our data for this period coming from the Uwharrie region in North Carolina.

One of the more debated issues of the Late Archaic is the typology of the Savannah River Stemmed and its various diminutive forms. Oliver, refining Coe's (1964) original Savannah River Stemmed type and a small variant from Gaston (South 1959:153-157), developed a complete sequence of stemmed points that decrease uniformly in size through time (Oliver 1981, 1985). Specifically, he sees the progression from Savannah River Stemmed to Small Savannah River Stemmed to Gypsy Stemmed to Swannanoa from about 5000 B.P. to about 1,500 B.P. He also notes that the latter two forms are associated with Woodland pottery.

This reconstruction is still debated with a number of archaeologists expressing concern with what they see as typological overlap and ambiguity. They point to a dearth of radiocarbon dates and good excavation contexts at the same time they express concern with the application of this typology outside the North Carolina Piedmont (see, for a synopsis, Sassaman and Anderson 1990:158-162, 1994:35).

In addition to the presence of Savannah River points, the Late Archaic also witnessed the introduction of steatite vessels (see Coe 1964:112-113; Sassaman 1993), polished and pecked stone artifacts, and grinding stones. Some also include the introduction of fiber-tempered pottery about 4000 B.P. in the Late Archaic (for a discussion see Sassaman and Anderson 1994:38-

44). This innovation is of special importance along the Georgia and South Carolina coasts, but seems to have had only minimal impact in the uplands of South or North Carolina.

There is evidence that during the Late Archaic the climate began to approximate modern climatic conditions. Rainfall increased resulting in a more lush vegetation pattern. The pollen record indicates an increase in pine which reduced the oak-hickory nut masts which previously were so widespread. This change probably affected settlement patterning since nut masts were now more isolated and concentrated. From research in the Savannah River valley near Aiken, South Carolina, Sassaman has found considerable diversity in Late Archaic site types with sites occurring in virtually every upland environmental zone. He suggests that this more complex settlement pattern evolved from an increasingly complex socio-economic system. While it is unlikely that this model can be simply transferred to the Sandhills of South Carolina without an extensive review of site data and micro-environmental data, it does demonstrate one approach to understanding the transition from Archaic to Woodland.

Woodland Period

As previously discussed, there are those who see the Woodland beginning with the introduction of pottery. Under this scenario the Early Woodland may begin as early as 4,500 B.P. and continued to about 2,300 B.P. Diagnostics would include the small variety of the Late Archaic Savannah River Stemmed point (Oliver 1985) and pottery of the Stallings and Thoms Creek series. These sand tempered Thoms Creek wares are decorated using punctations, jab-and-drag, and incised designs (Trinkley 1976). Also potentially included are Refuge wares, also characterized by sandy paste, but often having only a plain or dentate-stamped surface (Waring 1968). Others would have the Woodland beginning about 3,000 B.P. and perhaps as late as 2,500 B.P. with the introduction of pottery which is cord-marked or fabric-impressed and suggestive of influences from northern cultures.

There remains, in South Carolina, considerable ambiguity regarding the pottery series

found along the northern coast and their association with more southern coastal plain and piedmont types. The earliest pottery found at many sites may be called either Deptford, Yadkin, or Cape Fear depending on the research or their inclination at any given moment.

The Deptford phase, which dates from 3050 to 1350 B.P., is best characterized by fine to coarse sandy paste pottery with a check stamped surface treatment. The Deptford settlement pattern involves both coastal and inland sites.

Inland sites such as 38AK228-W, 38LX5, 38RD60, and 38BM40 indicate the presence of an extensive Deptford occupation on the Fall Line and the Inner Coastal Plain/Sand Hills, although sandy, acidic soils preclude statements on the subsistence base (Anderson 1979; Ryan 1972; Trinkley 1980). These interior or upland Deptford sites, however, are strongly associated with the swamp terrace edge, and this environment is productive not only in nut masts, but also in large mammals such as deer. Perhaps the best data concerning Deptford "base camps" comes from the Lewis-West site (38AK228-W), where evidence of abundant food remains, storage pit features, elaborate material culture, mortuary behavior, and craft specialization has been reported (Sassaman et al. 1990:96-98; see also Sassaman 1993 for similar data recovered from 38AK157).

Further to the north and west, in the Piedmont, the Early Woodland is marked by a pottery type defined by Coe (1964:27-29) as Badin.³ This pottery is identified as having very fine sand in the paste with an occasional pebble. Coe identified cord-marked, fabric-marked, net-impressed, and plain surface finishes. Beyond this pottery little is known about the makers of the Badin wares and relatively few of these sherds are reported from South Carolina sites.

³ The ceramics suggest clear regional differences during the Woodland which seem to only be magnified during the later phases. Ward (1983:71), for example, notes that there "marked distinctions" between the pottery from the Buggs Island and Gaston Reservoirs and that from the south-central Piedmont.

Somewhat more information is available for the Middle Woodland, typically given the range of about 2,300 B.P. to 1,200 B.P. In the Piedmont and even into the Sand Hills, the dominant Middle Woodland ceramic type is typically identified as the Yadkin series. Characterized by a crushed quartz temper the pottery includes surface treatments of cord-marked, fabric-marked, and a very few linear check-stamped sherds (Coe 1964:30-32). It is regrettable that several of the seemingly "best" Yadkin sites, such as the Trestle site (31An19) explored by Peter Cooper (Ward 1983:72-73), have never been published.

Yadkin ceramics are associated with medium-sized triangular points, although Oliver (1981) suggests that a continuation of the Piedmont Stemmed Tradition to at least 1650 B.P. coexisted with this Triangular Tradition. The Yadkin in South Carolina has been best explored by research at 38SU83 in Sumter County (Blanton et al. 1986) and at 38FL249 in Florence County (Trinkley et al. 1993).

In some respects the Late Woodland (1,200 B.P. to 400 B.P.) may be characterized as a continuation of previous Middle Woodland cultural assemblages. While outside the Carolinas there were major cultural changes, such as the continued development and elaboration of agriculture, the Carolina groups settled into a lifeway not appreciably different from that observed for the previous 500-700 years. From the vantage point of the Middle Savannah Valley Sassaman and his colleagues note that, "the Late Woodland is difficult to delineate typologically from its antecedent or from the subsequent Mississippian period" (Sassaman et al. 1990:14). This situation would remain unchanged until the development of the South Appalachian Mississippian complex (see Ferguson 1971).

Historic Overview

The earliest activity in the Horry County area may have been the Spanish Ayllon movement from Rio Jordon (Cape Fear River) to San Miguel de Gualdape, 45 leagues distant. Some have argued that Fort San Miguel may have been at the mouth of Winyah Bay, although Paul Hoffman has recently suggested the fort was in Beaufort County, South Carolina or Chatham

County, Georgia.

While the English settled Charleston in 1670, the northern frontier was ignored, except for Indian trade, until 1731, when the first Royal Governor of Carolina, Robert Johnson, directed 11 townships to be laid out, including Kingston on the west bank of the Waccamaw. Kingston covered much of Georgetown and Horry counties and by 1734 the town of Kingston, later known as Conwayboro and eventually Conway, was founded. The township, however, was never erected into a parish, but remained part of the Parish of Prince George, Winyah until 1785. In that year Prince George was divided into four districts and by 1801 Horry District was formally separated from Georgetown District (Rogers 1972:9). The designations of "county" was not used until 1868. A variety of townships were established, including Simpson Creek and Little River on the south side of the Waccamaw River.

Prior to the Revolution there were few residents in Kingston and it was not until the late eighteenth century that English, French, Scotch, and Irish settlers began coming into the area. Many settlers in the early nineteenth century came from North Carolina and the northern seaboard states.

In spite of Horry's coastal plain situation, the area developed along vastly different lines than its southern neighbors Georgetown and Charleston. Horry District was always isolated from the remainder of South Carolina and had much stronger connections with North Carolina (Rogers 1972:3). The major traffic artery was the Waccamaw River and this reliance on river transport did not change until the highway development of the 1930s. Subsistence farming was the main occupation in the early 1800s and the farms were small, specializing in peas, wheat, rice, cotton, and corn, most for home consumption (Rogers 1972:5). Mills notes that the population was

mostly engaged in cultivating the soil. There are a few mechanics, such as blacksmiths, shoemakers, tailors [sic], halters, etc. (Mills 1972 [1826]:583).

In Mills' *Atlas* of 1826, the Horry District was

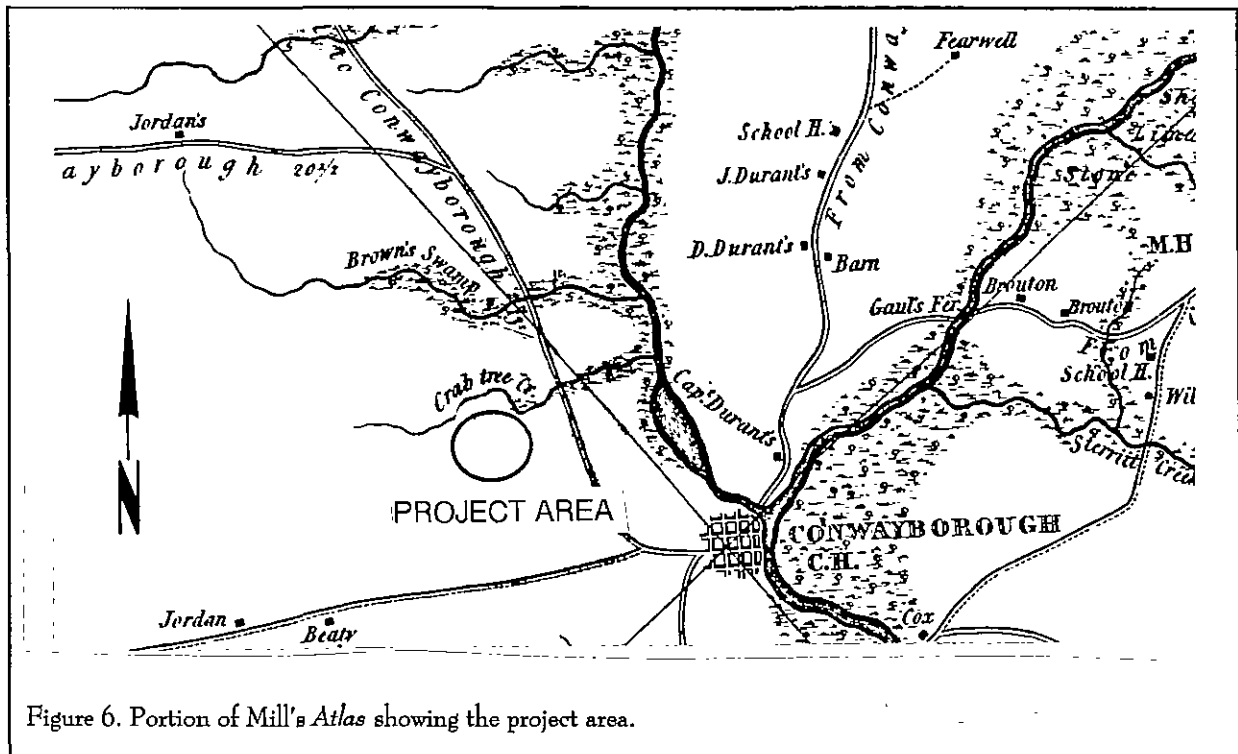


Figure 6. Portion of Mill's *Atlas* showing the project area.

surveyed by Harlee in 1820. At this time there seem to have been no residences in the vicinity of the project area (Figure 6). This absence of houses may not so much indicate sparse settlement as it may reflect the subscription basis of Mills' *Atlas*. The subsistence farmers of Horry District may either have been unable to subscribe or may have had no need to let others know their location. The 1860 census for Horry District indicates that many of the farmers in Kingston, for example, could neither read nor write, further reducing the benefits of listing in an atlas.

The emphasis on subsistence farming appears to be the result of topography. Only 20% of the land is subject to the type of tidal overflow necessary for wet cultivation of rice. Mills (1972 [1826]:581) notes that the river floodplain soil was productive where it could be reclaimed by drainage, while the upland soils were much less productive. This difference in quality is reflected in the prices for the land. Mills states that,

the low land swamps, when secured from the freshets, will sell for 40 or \$50 an acre. The uplands are valued

at from \$4 down to 25 cents per acre (Mills 1972 [1826]:581).

Interestingly, the price of "improved farms" ranged from \$20 to \$50 an acre as late as 1918 (Tillman et al. 1919:340). The few plantations found in Horry District were primarily located in All Saints Parish, east and south of the Waccamaw River. It was from this area that a small quantity of rice was exported throughout the nineteenth century (Rogers 1972:13).

Because the soils of Horry District were not able to support plantation agriculture a unique distribution of population and a very low percentage of slaves were found in the region. Horry County also continued to play a minor role in state politics. The area, prior to the Civil War, was oriented to smaller farmers and never developed an aristocratic plantation society with political and economic powers. Most of the farms, including the larger ones were situated in Kingston Township. The 1860 census indicates that of the 782 farms, 560 were in Kingston (Rogers 1972:12). In 1860, the population was 2606 and there were only 708 slaves. This ratio of 70% white and 30%

blacks has not only remained stable into the twentieth century, but also stands in contrast to Georgetown District where about 12% of the population was white and 88% was black until the 1880 census, when the white population increased to about 20% (Rogers 1972).

Horry District never sided with the radical secessionists, possibly because of the influence of northern immigrants or because of the resentment of the political and economic power of slave owners. In any event, Horry County responded enthusiastically to the call for volunteers at the outbreak of the Civil War (Rogers 1972:35).

By the 1830s a new industry was competing with farming in the Horry area. Northern immigrants from Maine, coupled with "pine woods speculators" from North Carolina began to exploit the forest products of both the uplands and swamp areas (Tillman et al. 1919:330; Berry 1970; Rogers 1972:14). The Horry District was the leading turpentine producer in South Carolina by 1860, producing products valued at \$392,643. The lumber and turpentine industry continued to grow rapidly after the Civil War. Tobacco was introduced about 1850, but was not an important crop until after the Civil War, lead by the Green Sea Township.

Horry District saw little involvement in the Civil War, although 925 of the 1,000 men in the voting population volunteered for duty and served (Rogers 1972:35). Fort Randell was established at Clardy's Point on the Little River and saw skirmishes in 1863 and 1865. The salt works of Peter Vaught, Sr. at Singleton Swash were raided in April 1864, and in 1865 a Union expedition was led up the Waccamaw to destroy ferries at Bull Creek and Yahannah (Rogers 1972:35-38).

After the Civil War, Horry was part of the Military District of Eastern South Carolina, but the Federal stay was short and by 1866 military troops had left Horry County. This absence of Federal troops continued throughout Reconstruction and the Democrats maintained political control throughout the period. Further, there was no land distribution in Horry County, possibly because there was really no land worth

distributing (Rogers 1972:47). Following the Civil War a number of changes began to affect the Horry area. Tobacco began to be a more important crop, the first county bank was organized in 1880, the railroad and telegraph arrived in 1887, and in 1869 a regular weekly county newspaper appeared (the *Horry Weekly News*, which published until 1877). Conwayboro was changed to Conway in 1883 and the only other "major" town continued to be Little River.

The turpentine business boomed in the 1870s and by 1880 there were 21 operators in the county, producing \$181,400 annually (Rogers 1972:50). Farming, however, continued to be important. In 1870 there were 1,300 farms averaging 50 acres in size. The major crops were still subsistence items such as corn, sweet potatoes, and rice. Few wage employees were found in Horry (Rogers 1972:58). The Socastee and Little River townships had the richest farms and the five largest farms also produced turpentine in 1870 (Rogers 1972:60). The Grange movement arrived in Horry County relatively late, never organized in many areas, and failed by the late 1870s.

By 1910 the County population had increased to almost 27,000 but there was no town, including Conway, with a population of at least 2,500. Conway continued, however, to have strong lumbering and mercantile interests. With the gradual decline of lumbering and the turpentine industry, farming was once again the dominant activity in the county. The period from 1880 to 1910 saw corn acreage increase 140%, cotton acreage increase 90%, and tobacco acreage increase from 19 to 5,347 acres. During the same time rice production fell from 747,689 to 1,210 pounds (Tillman et al. 1919:333). By 1919 the chief money crops were corn, cotton, and tobacco, although corn was largely used to supply the home and fatten stock. After 1895 tobacco began to replace cotton as a prime money crop and by 1910 was "grown more or less generally over a county by small farmers who live on their farms and superintend the work (Tillman et al. 1919:335).

Livestock production has never been important in Horry County and in the early twentieth century hogs were the principle source of livestock income. These animals were usually slaughtered in the fall for

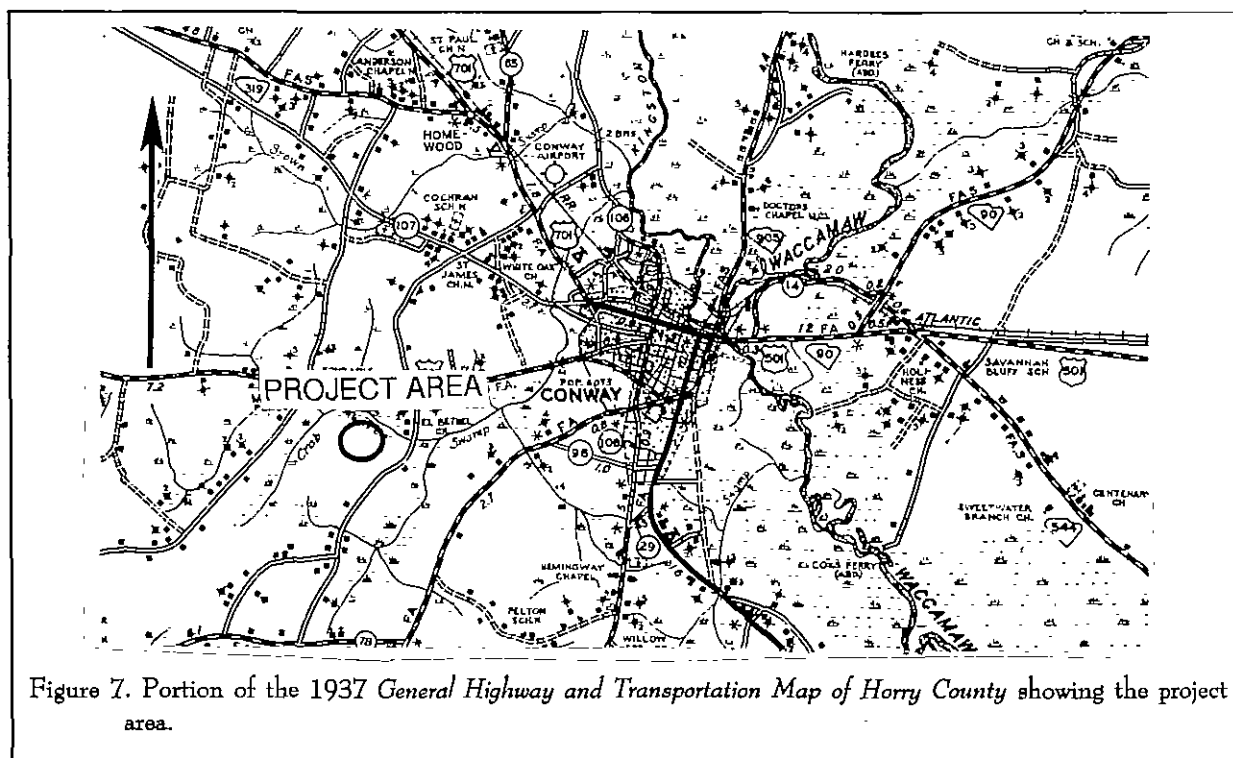


Figure 7. Portion of the 1937 *General Highway and Transportation Map of Horry County* showing the project area.

home use or sale on the local market. Cattle were mostly scrub stock and dairying was neglected. Farm equipment was largely inadequate in the early 1900s and most of the plowing was done with one ox or mule. On many small farms the adequacy of farm equipment did not appreciably improve into the 1940s, when the probate inventory for one small Horry farmer listed only one mule, a one-horse wagon, one disc, four plows, one lot hoes, one guano distributor, a tobacco sprayer, and a corn planter (Trinkley and Caballero 1983:8). Tillman et al. (1919:338) indicate that in the early 1900s plowing was seldom more than 2 to 3 inches deep because of the poor machinery. It is suggested that this lack of equipment was not entirely related to a lack of prosperity, but rather was largely the result of cheap labor. Tillman et al. report that, "negro men receive 75 cents to \$1.25 a day . . . , while negro women are paid 50 to 65 cents a day" (Tillman et al. 1919:340).

Horry County, in 1910, had a relatively low rate of farm tenancy. The 1937 *General Highway and Transportation Map of Horry County* shows no tenant houses in the immediate project area (Figure 7). Tillman et al. (1919:340) indicate that 72.9% of the

farms were operated by owners and 27% by tenants. The average size of such farms (each tenancy is classified as a farm) was 117.8 acres. This is contrasted with piedmont Spartanburg, where in 1920 32.1% of the farms were operated by their owners and 67.7% were operated by tenants. In Spartanburg, where cotton was still king, the average farm size was 49.4 acres (Latimer et al. 1924:419). This dichotomy documents the differences between tenancy in the Atlantic Coastal Plain, where there was a low "devotion" to cotton, and in the Black Belt and Upper Piedmont, where cotton was more important, tenancy rates higher, and farm size smaller (see Woofter et al. 1936).

Previous Archaeological Studies

Horry has received rather spotty archaeological attention. Derting and his colleagues, for example, list 67 reports associated with the county, with 41 of these (or 61%) representing highway or sewer surveys (Derting et al. 1991). Although dated, this indicates that the attention has been focused on relatively narrow, constrained corridors, with only minor attention devoted to the area's rich prehistoric and protohistoric resources.

Considerable, primarily unpublished, research took place in the Myrtle Beach area during the 1960s at the Ellsworth Site by Erika Fogg-Amed, then a student of Reinhold Englemeyer at USC-Conway. Several test units were placed within the site which yielded Stallings, Thom's Creek, Hanover, and Cape Fear sherds, as well as a Morrow Mountain component (Fogg-Amed n.d. a). No site boundaries were established and, in fact, no site form has ever been filed.

Fogg-Amed also tested the "Coates' Site," located about 10 miles north of Myrtle Beach on a high bluff overlooking a freshwater pond. Testing at this site yielded a dense shell midden that produced only lithic debitage (Fogg-Amed n.d. b). Again, no site form was ever completed and the report is available only as a draft.

This unfortunately is characteristic of much of the early work in this part of South Carolina, which even into the late twentieth century held its representation as being "the dark corner."

Chicora Foundation conducted a previous survey for Santee-Cooper, examining the proposed Dick Pond Road Switching Station in 1994 (Adams 1994), as well as a proposed 407 acre development tract to the north (Adams 1995). Neither study found any evidence of archaeological remains — in both cases largely because of the low, poorly drained soils.

An intensive survey was recently completed by Chicora Foundation at the Castlewood Subdivision, in the Socassee township, south of the current project area. This study found no evidence of archaeological remains, also likely due to the low, poorly drained soils.

ARCHAEOLOGICAL SURVEY AND RECOMMENDATIONS

Archaeological Site Survey

The project area was divided into two areas: the western portion of the tract, consisting of planted pine found on very low, poorly drained soils; and the eastern portion of the tract, consisting of agricultural lands which are higher and situated on better drained soils. The former area, at the time of this study, had not been clear cut or otherwise impacted by development. The latter area, consisting of the open soybean fields, was being actively developed. Two archaeological sites were identified in the project area (Figure 8).

The purpose of this intensive survey was to identify any archaeological resources within the survey tract. We anticipated a pedestrian survey of the entire tract, conduct shovel tests in areas of low surface visibility, and shovel test using closer intervals where surface materials were encountered. Shovel testing as part of the routine survey would be undertaken at 100 foot intervals along transects also spaced at 100 foot intervals. The tests would be 1.0 foot square and would range from 1.0 to 1.5 feet in depth.

On arriving at the project, we noticed that

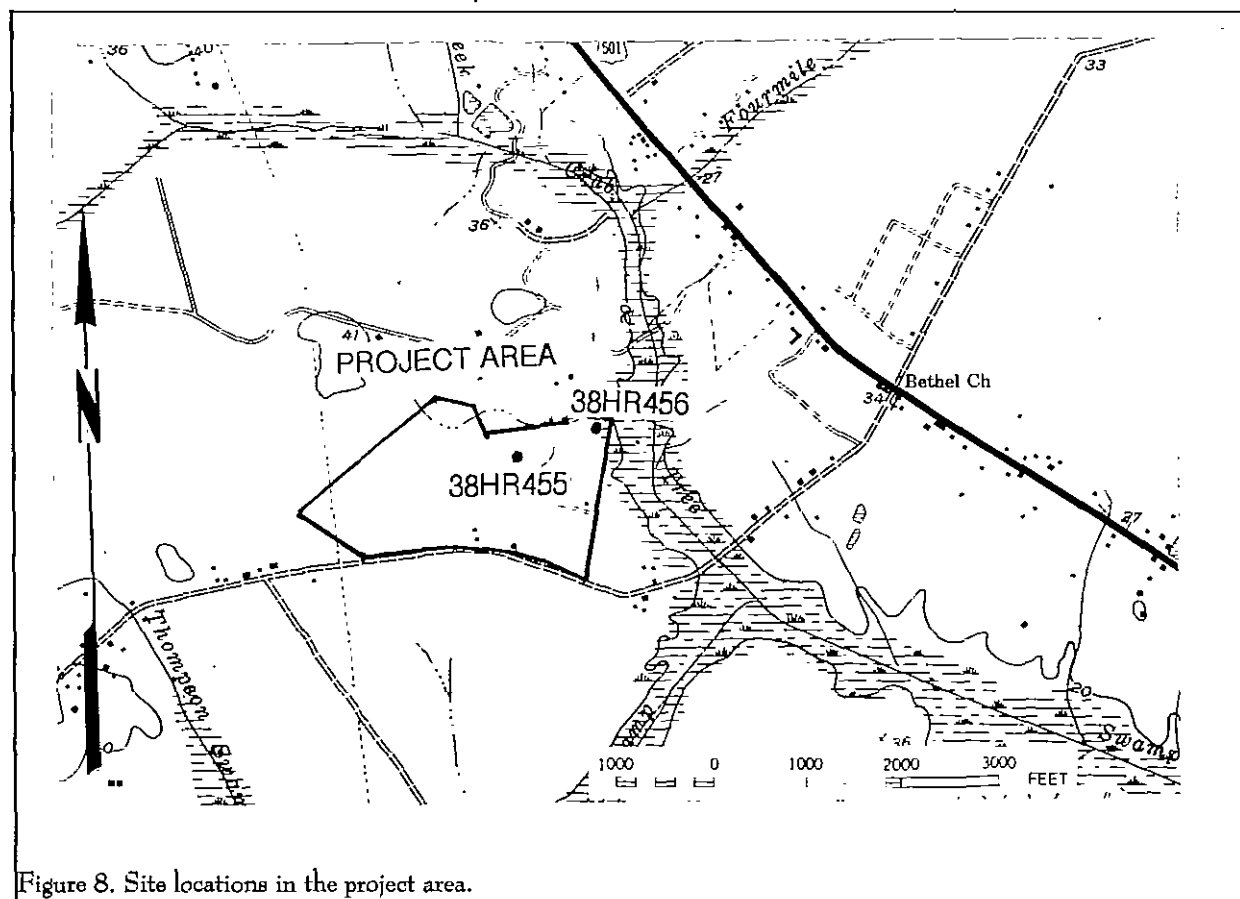


Figure 8. Site locations in the project area.



Figure 9. View of the eastern portion of the project area showing fields and recent construction activity.

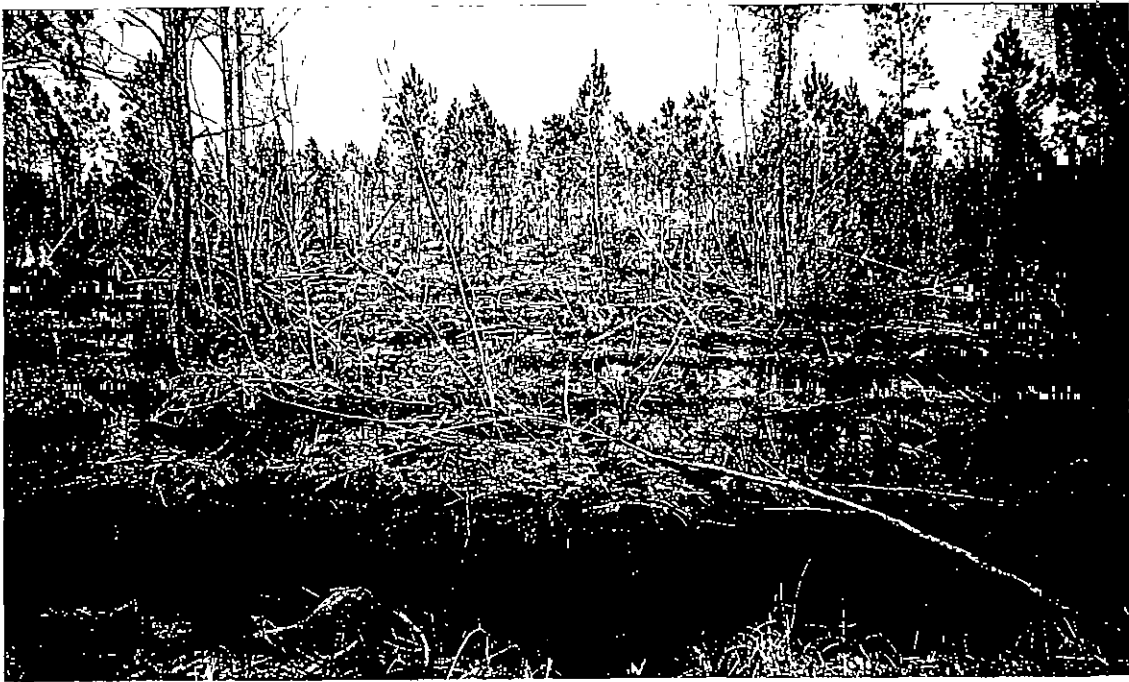


Figure 10. View of the western portion of the project area showing wet conditions.

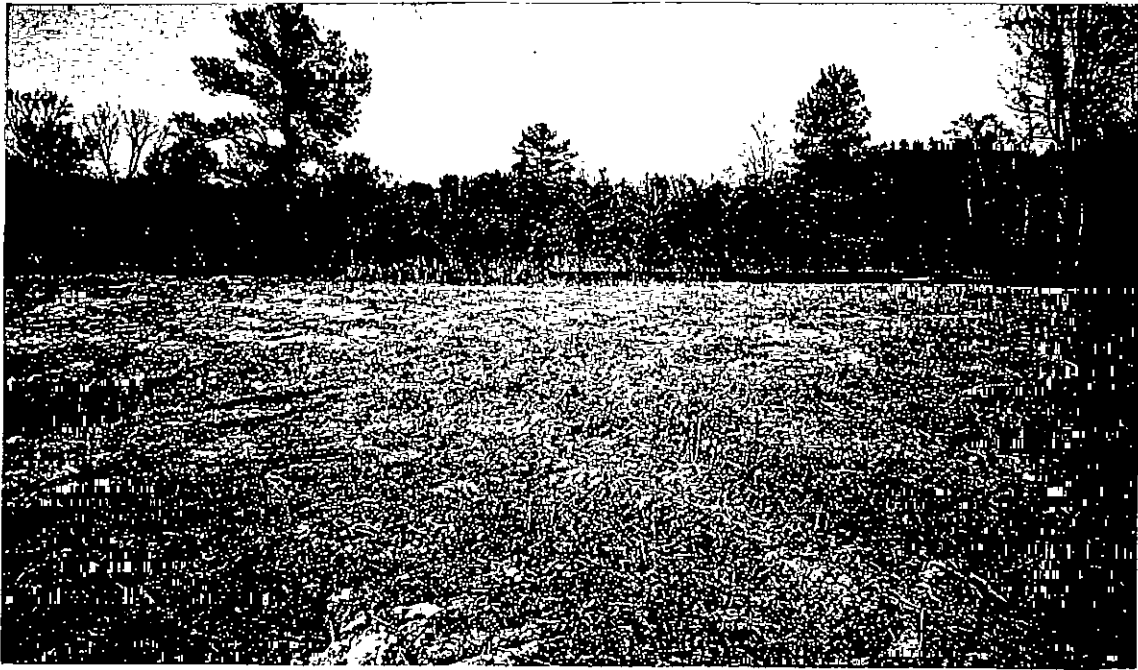


Figure 11. Overview of site 38HR456, showing recently cultivated fields.

much of the eastern portion of the tract was disturbed by bulldozing and grading (Figure 9), while the western portion contained very large areas of standing water (Figure 10).

As a result, large portions of the western area could not be easily surveyed. Where possible, however, we did make our way through the water to identify slight rises where the soil was somewhat drier (although never what would be considered dry or well drained). In these areas shovel testing was undertaken at 100 foot intervals, with the discovery that all tests filled with water at a depth of less than 1.0 foot (often at depths of only 0.5 foot).

In contrast, the eastern portion allowed easy access and a pedestrian survey could be accomplished with little effort. Surface visibility throughout was about 75%. Although there was construction disturbance, it was in this area that the two archaeological sites were encountered. These two areas were shovel tested, as described above, producing a historic scatter (38HR455) and a prehistoric site (38HR456).

Findings

Site 38HR456 was located on a low ridge that slopes north toward a small wetland (Figure 11). Seven artifacts, including a chert Savannah River Stemmed projectile point, two chert flakes, and a small unidentifiable sherd, were recovered from at the eastern edge of the survey tract. Three transects of shovel tests were excavated, producing three positive shovel tests and an additional three small, sherds, one of which was a Pee Dee Complicated Stamped sherd (Figure 12). These materials date from the Late Archaic through Mississippian periods.

The site is located on Eulonia sandy loam. There has been some erosion of the soils at this site, most likely due to the area's extensive cultivation. The central UTM coordinates are N3748040 E675500.

Extensive damage to the surrounding area west of Transect 3 barred further testing at this site, although it is likely that the scatter extended further west originally.

ARCHAEOLOGICAL SURVEY OF WOODCREEK SUBDIVISION

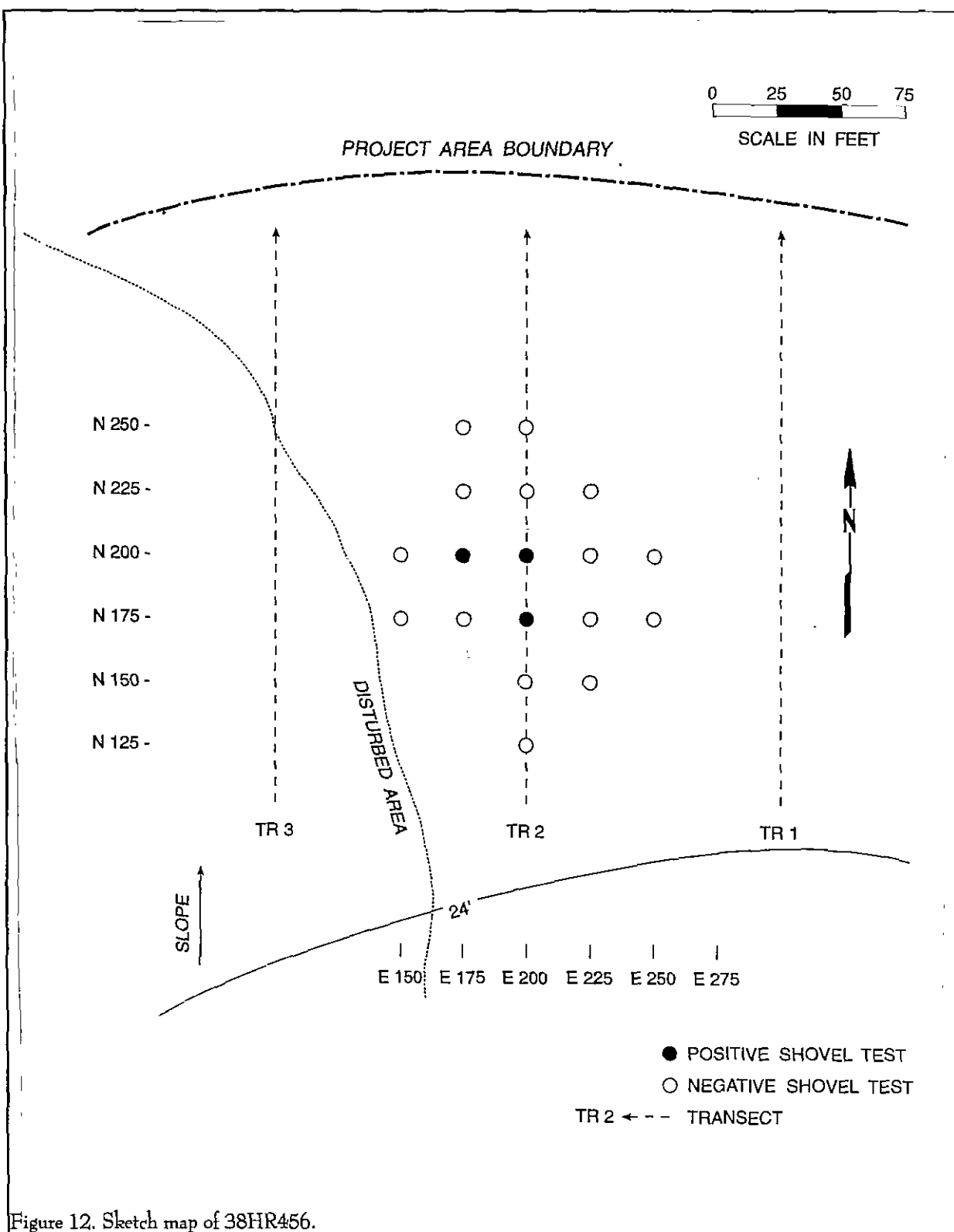


Figure 12. Sketch map of 38HR456.



Figure 13. Overview of site 38HR455.



Figure 14. View of site 38HR455, showing tire rut damage.

Although this site's location and range of materials indicates that it is the type of resource which needs to be studied in Horry County to help us better understand the cultural phases in this portion of the state, the data sets have been seriously impacted both by cultivation and, more particularly, recent development activities. Moreover, the shovel tests fail to reveal any subsurface features and produced a very low recovery rate for additional materials. Consequently, it is likely that site integrity is low — affecting the site's ability to address significant research questions. As a result we recommend the site not eligible for inclusion on the National Register of Historic Places and no further work is recommended.

Site 38HR455 is located in a soybean field in the northern portion of the survey tract on a low ridge 32 feet above mean sea level (AMSL) (Figure 13). The central UTM coordinates are N3747920 E675220. The site is situated on Yauhannah fine sandy loam. Soils in this area show a depleted A horizon, probably — like 38HR456 — the result of agricultural activities as well as recent construction. While this portion of the tract has not been as extensively damaged as the northern area, there is some tire rut damage from heavy machinery (Figure 14).

The site contains only a surface scatter of 23 historic artifacts, including four bottle glass fragments, 18 undecorated whiteware ceramics, and a single ginger beer bottle fragment. This rather generic assemblage is suggestive of a late-nineteenth to early-twentieth century occupation.

Subsequent shovel testing at 50 foot intervals did not produce any surface artifacts or evidence of intact architectural features. Missing from the assemblage are architectural remains, such as brick, nails, or window glass.

The data sets from this site are very sparse. Lacking is a reasonably complete assemblage, as well as evidence of subsurface remains. In addition, the site has suffered damage prior to our study, further reducing its integrity. As a result, it is unlikely that the materials present can adequately address significant research questions concerning issues such as historic tenancy or agricultural lifeways in the flatwoods. We

recommend the site as not eligible for inclusion on the National Register of Historic Places. No additional management activities are recommended pending the review by the S.C. State Historic Preservation Office.

Recommendations

Upon approval by the State Historic Preservation Office, Lewis and Reeves, P.C. will have fulfilled its cultural resource protection obligations and no additional management activities will be necessary.

It is possible that in spite of this intensive survey additional archaeological remains may be encountered during construction. The contractor should be notified to be alert to the possibility of additional archaeological remains. If concentrations of pottery, ceramics, arrowheads, bottles, or other remains such as bricks or structural debris are identified, all work in the site area should cease until the site can be assessed by either Chicora Foundation or the State Historic Preservation Office.

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